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Electro Chemicals Division

Diamond Shamrock Corporation 351 Phelps Court P.O. Box 2300 Irving, Texas 75061 214/659-7000

DPM 957-1 Material Safety

Diamond Shamrock

GENERAL INFORMATION
Liquid Caustic Soda is a clear, corrosive liquid with
no distinct odor.

Data Sheet

340B I PRODUCT IDENTIFICATION Contact Local Sales Office 216-357-7070 MANUFACTURER'S NAME REGULAR TELEPHONE NO. EMERGENCY TELEPHONE NO. DIAMOND SHAMROCK CORPORATION ADDRESS Divisional Technical Center, P. O. Box 191, Painesville, Ohio 44077 TRADE NAME 125 **CAUSTIC SODA - Liquid** SYNONYMS Sodium Hydroxide; NaOH II HAZARDOUS INGREDIENTS HAZARO DATA MATERIAL OR COMPONENT SODIUM HYDROXIDE 50a PEL° = 2.0 mg/m³ for 15 minutes *OSHA Permissible Exposure Limit (PEL) III PHYSICAL DATA **BOILING POINT, 760 MM HG** MELTING POINT FREEZING POINT 143°C 12.1°C (54°F) SPECIFIC GRAVITY (H2O=1) VAPOR PRESSURE 1.54 @ 15.6°C 13 mm Hg @ 60°C VAPOR DENSITY (AIR=1) SOLUBILITY IN H2O, % BY WT. Not applicable Completely soluble % VOLATILES BY VOL. EVAPORATION RATE (BUTYL ACETATE=1) Not volatile Does not apply APPEARANCE AND ODOR Clear - no odor 7.5% solution has pH 14

EC-LC-6c

All information recommendations and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable, however, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Diamond Shamrock Corporation as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Diamond. Shamrock Corporation assume any inability arising out of use, by others, of the product referred to herein. Not is the information herein to be construed as absolutely complete.

FIRE AND EXPLOSION DATA		· · · · · · · · · · · · · · · · · · ·		
FLASH POINT (TEST METHOD)	AUTOIGNITION TEMPERATURE			
None		,	Nonflammable	
FLAMMABLE LIMITS IN AIR, % BY VOL.	LOWER Nonflammable		UPPER Nonflammable	
EXTINGUISHING MEDIA				
Use carbon dioxide, "alcohol" foam or dry chemicals	in areas	where caustic soda is stored.	Caustic soda is nonflammable.	
SPECIAL FIRE FIGHTING PROCEDURES			<u> </u>	
Pressure-demand, self-contained respiratory protectio caustic soda is stored. Caustic soda is nonflammable.		rotective clothing should be we	orn by firefighters in areas where	
UNUSUAL FIRE AND EXPLOSION HAZARD				
None				
VIII TANKA				
V HEALTH HAZARD INFORMATION	4- I C	> 0.040 < 0.00 == //.		
HEALTH HAZARD DATA PEL = 2.0 mg/m³ for 15 minutes. Acut Acut Acut	te LD50 te LD50	= 140-340 mg/kg (oral - rat) = 1,350 mg/kg (dermal - rabb	it)	
ROUTES OF EXPOSURE				
Caustic soda is a corrosive material.				
INHALATION Airborne concentrations of dust, mist, or spray of causti lung tissue proper which could produce chemical pne				
SKIN CONTACT				
Caustic soda is destructive to tissues contacted and pr	roduces	s severe burns.		
SKIN ABSORPTION				
See "Skin Contact" above.				
EYE CONTACT Caustic soda is destructive to eye tissues on contact. \(\) blindness.	Will cau	se severe burns that result in	damage to the eyes and even	
INGESTION Caustic soda can cause severe burns and complete tissuand stomach if swallowed.	ue perfo	oration of mucous membranes of	of the mouth, throat, esophagus,	
EFFECTS OF OVEREXPOSURE ACUTE OVEREXPOSURE Burns; resulting in frequently deep ulceration and ultin	mata sa			
CHRONIC OVEREXPOSURE	nate se	arring.		
The chronic local effect may consist of multiple areas Similarly, inhalation of spray or mist may result in vary				
EMERGENCY AND FIRST AID PROCEDURES Object is to Seek EYES: Immediately flush eyes with large amounts of water for eye surface. Washing eyes within 1 minute is essential to	at least			
SKIN Immediately wash contaminated skin with plenty of wa (3% solution) if available. Remove contaminated clothin cannot be decontaminated. Seek medical attention im	ng and f	potwear and wash clothing befo	with vinegar or dilute acetic acid ire reuse. Discard footwear which	
INHALATION Get person out of contaminated area to fresh air. If brea be administered, if readily available. Seek medical atte			n should be started. Oxygen may	
INGESTION. If swallowed, DO NOT induce vomiting. Give large quenching by mouth to an unconscious person. Seek means the second of the second			eral glasses of milk. Never give	
ES TO PHYSICIAN		•		